

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

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January 19, 2016 Writer's telephone number: (510) 287-4750

2016

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Via Electronic and Next-Day Delivery

Stephen Artus

Rail Transit Safety Section Program & Project Supervisor

California Public Utilities Commission 505 Van Ness Avenue, Second Floor

San Francisco, CA 94102 stephen.artus@cpuc.ca.gov

Re: BART Warm Springs Extension Project

General Order 95 Fencing Variance Request

Dear Mr. Artus,

The Bay Area Rapid Transit District (BART) hereby requests a variance to CPUC General Order (GO) 95, Section No. 79.4 B, fencing requirements for the BART Warm Springs Extension (WSX) Project to provide fencing that better matches the aesthetics of the planned surrounding environment. Specifically, BART requests approval for the option to install alternative architectural fencing adjacent to the BART guideway at the Warm Springs/South Fremont BART Station site as an equivalent or greater protection to that specified in GO-95.

G0-95, Overhead Electric Line Construction, Section 79.4 Fencing states:

A. At Ground Level

Third rail construction or reconstruction shall not be permitted at ground level unless the rights-of-way, easement or other property upon which the same is located is entirely fenced. Fence construction shall be designed, installed and maintained in such manner as to deny access over, under or through the fencing to all but authorized persons.

B. Material and Height

Fencing material shall be of galvanized steel, woven mesh or links (commonly known as chain—link or cyclone fencing), extending from ground level to a minimum height of seven feet. Above said 7 foot height, there shall be installed an inclined extension of not less than 12 inches, to which shall be attached no fewer than three strands of barbed wire, with said extension being inclined 45° away from the fenced facilities wherever possible.

BART intends to install a 7-foot architectural fence mounted on a stem wall for a total height of 8.5 to 11 feet from finished grade at the public side of the wall to the top of fence. For the portion of the fence beyond the limits of the station platform and supervisor's building, the architectural fence will be further secured by a 12-inch inclined extension with three strands of barbed wire. The extension will be inclined 45° away from the fenced facilities. The portion of the fence along the station platform/supervisor's building will have an anti-climb flashing at the base of the architectural fence which reduces the possibility of a foothold on the stem wall supporting the fence and thus achieving an effective height of 10 to 11 feet above finish grade.

Architedural Fence Features:

- Framing: 16-gage steel, mitered corners, welded, galvanized, painted;
- Wire Mesh: panelized woven steel mesh (10-gage wire), lockcrimp, with square pattern and 1-1/2" openings, galvanized and painted.;
- Barbed wire: 3 strands of PVC coated barbed wire in grey;
- Extension arms: 12" galvanized metal, inclined at 45° and painted to match fence frame;
- Stem wall: reinforced concrete, 12" thick with 2" chamfers and a 12-gage galvanized sheet metal flashing mounted to the top on the public side to prevent the wall ledge from being used as a foothold.

We have enclosed the following drawings for your review:

- Drawings X061 and X062 show the general plan of the WSX Project.
- Sketch of the overall layout of the Warm Springs/South Fremont Station site.
- Drawings C192 and C193 show the location and limits of the alternative fencing.
- Drawings A631-A and A631-B show a typical elevations and cross sections of the alternative fencing.

The Project believes that this configuration will achieve the following:

- Fence will "deny access" as required by G0-95, Section 79.4A.
- Fence will provide an equivalent or greater security for the BART guideway than the requirements of G0-95, Section 79.4B.
- Provide a pleasing environment for the patrons using the BART Warm Springs/South Fremont Station.

Therefore, BART hereby requests a variance from Section 79.4.B, allowing BART to use architedural fence configuration as described above.

Please feel free to contad me if you need any further information.

Sincerely,

Paul A. Medved, P.E.

WSX Project Group Manager

Encl.

WSX LTSS General Plan, Dwgs X061 and X062

WSX LTSS Station Site, Sketch

WSX LTSS Fencing Plan, Dwgs C192 and C193

WSX LTSS Architectural Guardrail, Dwgs A631-A and A631-B

Cc:

H. Teo, hteo@bart.gov(via email only)

Z. Fan, zfan@bart.gov (via email only)

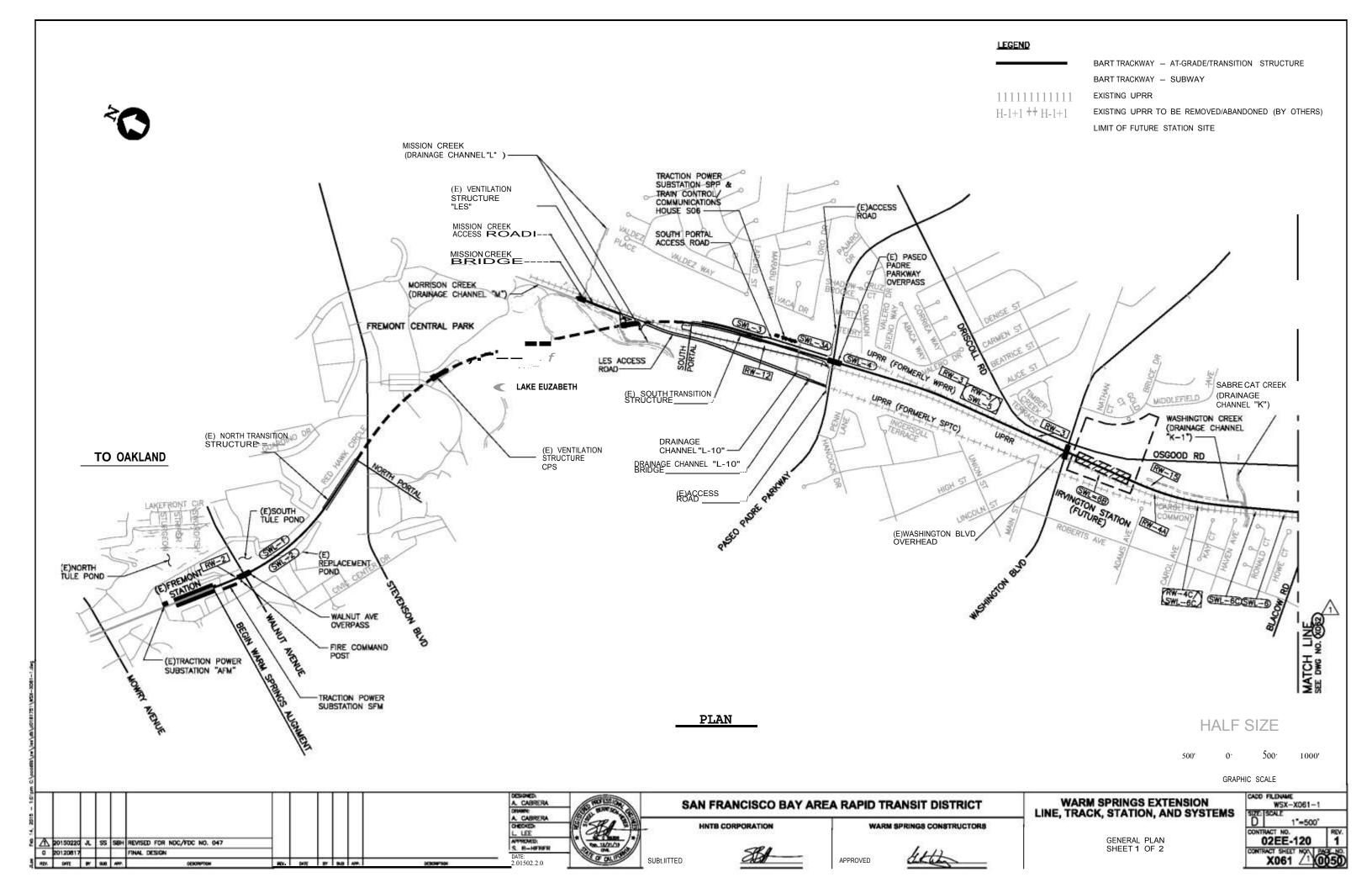
D. Silva, dsilva@bart.gov (via email only)

M. Oatman, wsxltss.marty@gmail.com (via email only)

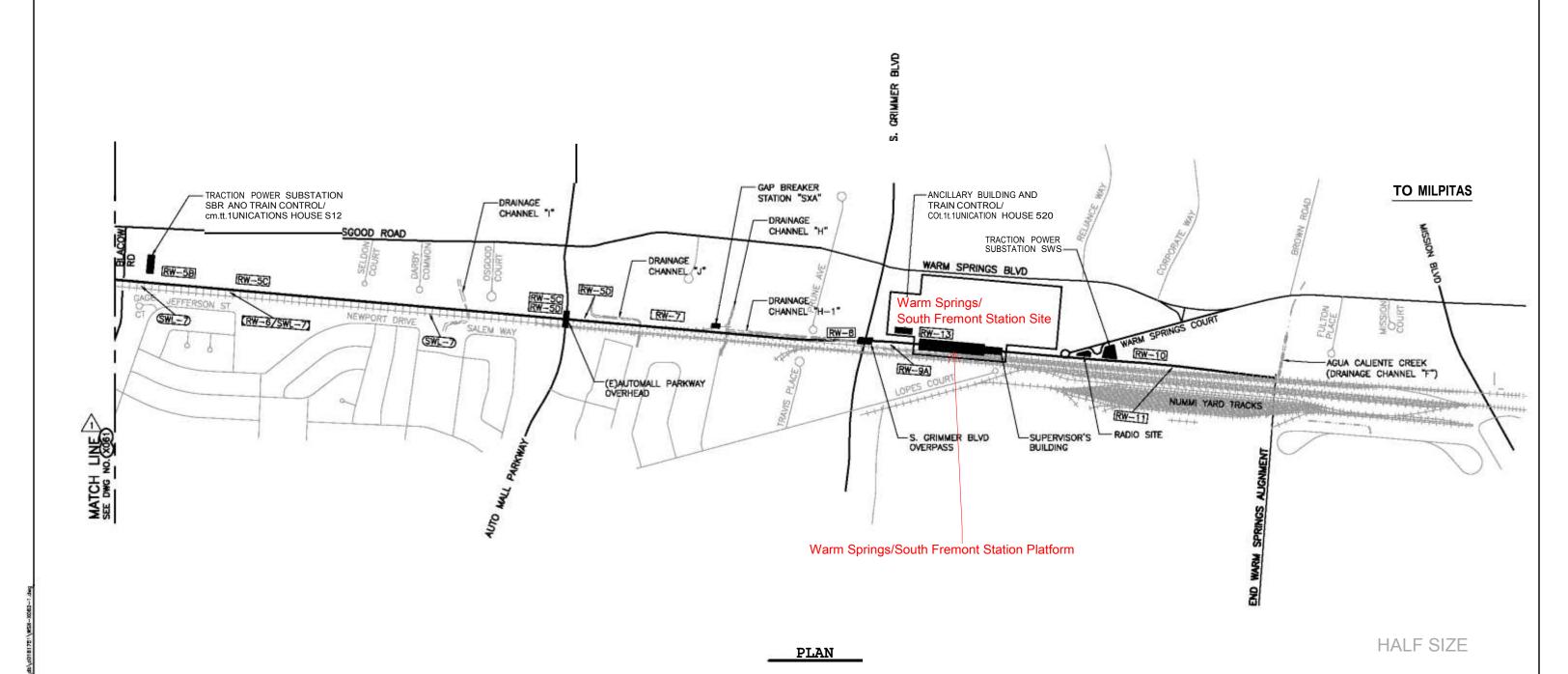
C. Sullivan, colleen.sullivan@cpuc.ca.gov (via email only)

R. Hansen, robert.hansen@cpuc.ca.gov (via email only)

File 2.21, 7.2.23







WARM SPRINGS EXTENSION LINE, TRACK, STATION, AND SYSTEMS SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

WARM SPRINGS CONSTRUCTORS

GENERAL PLAN SHEET 2 OF 2

CADD FILENAME WSX-X062-1 02EE-120 X062 (005)

1000'

500.

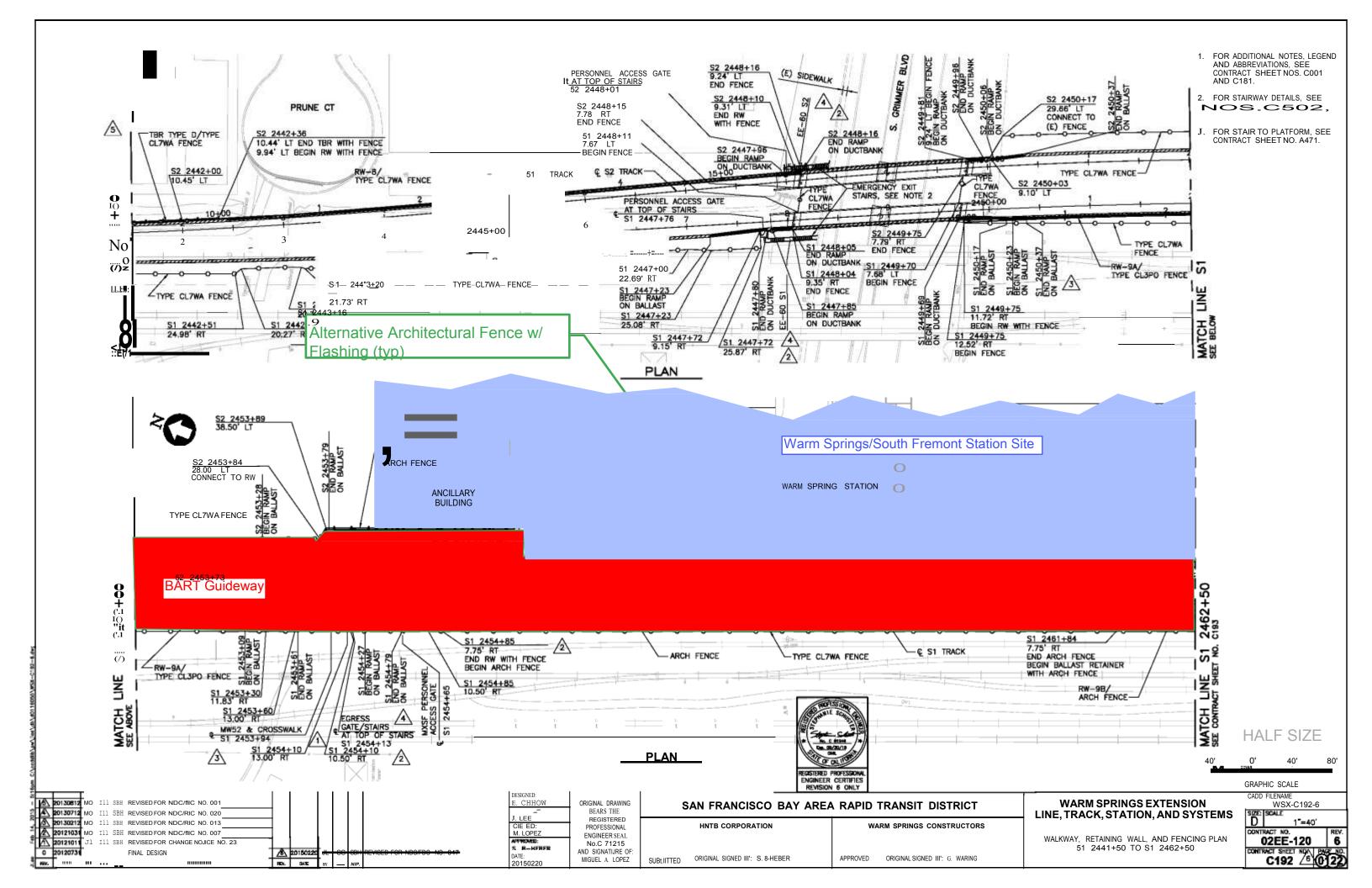
GRAPHIC SCALE

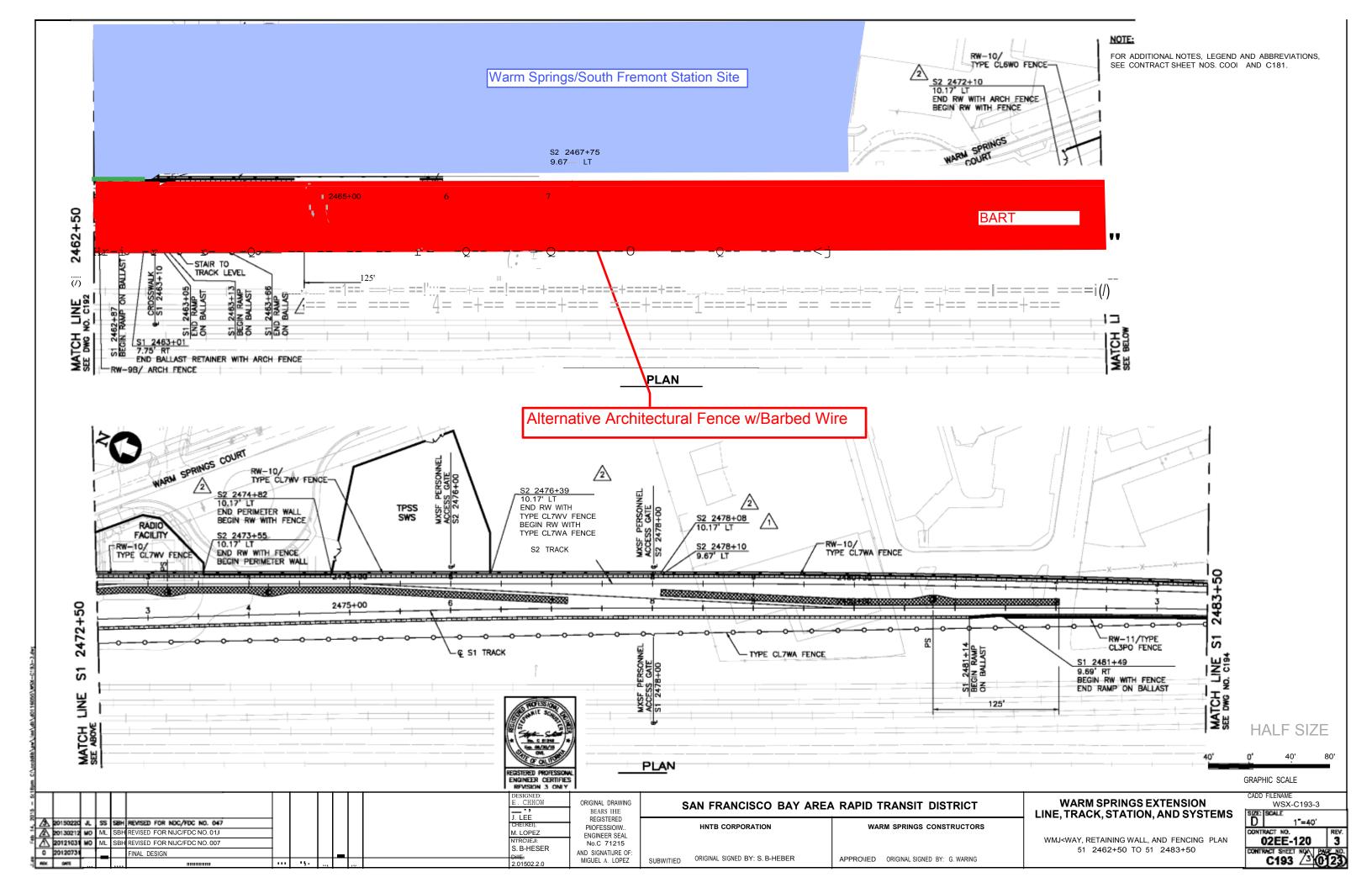
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0 20120817 FINAL DESIGN S REV. DATE DY GUB APP.

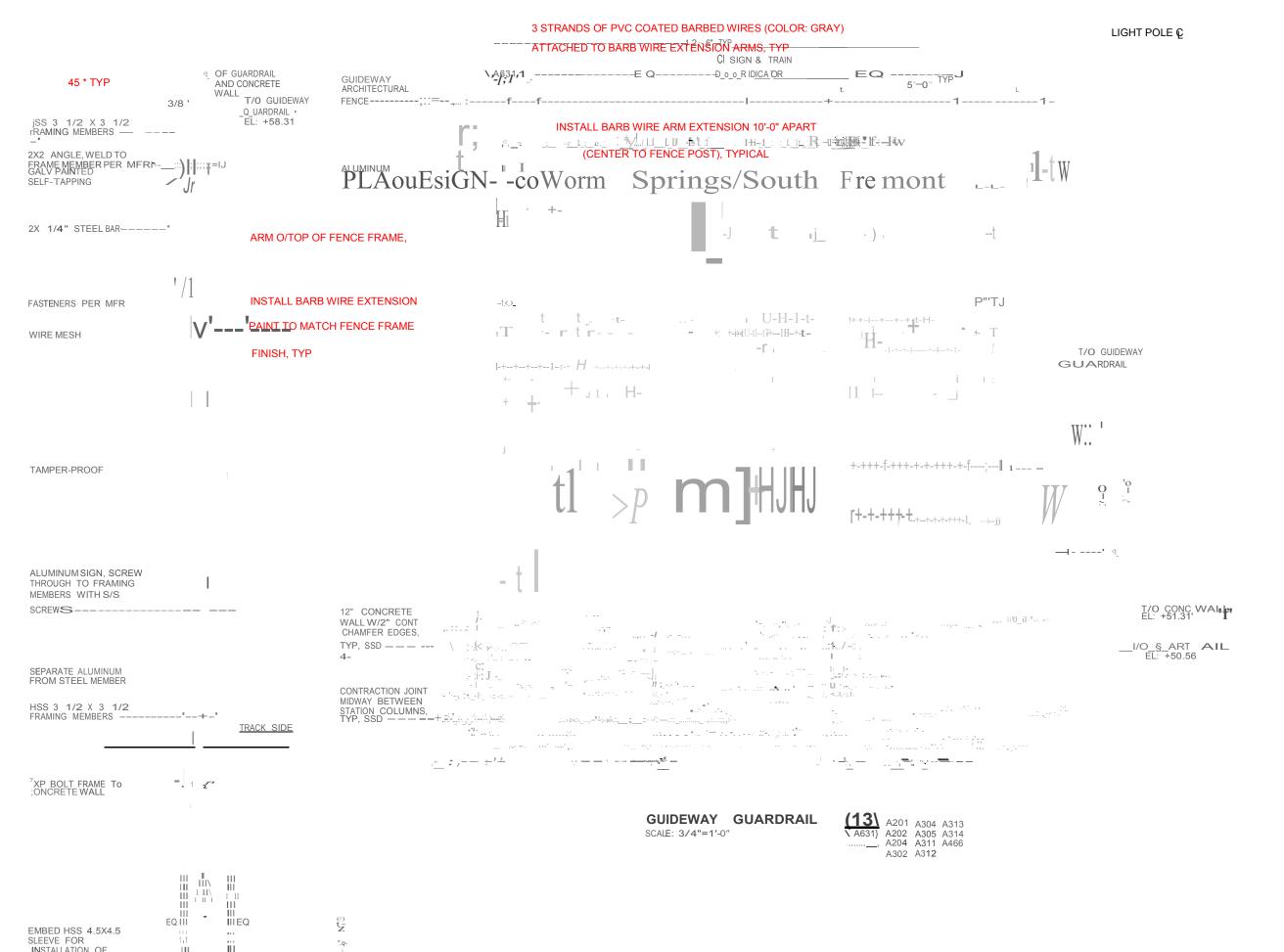
A. CABRERA DIDAMN:
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CHECKED:
L. LEE
APPROVED:
S. R-HERFR











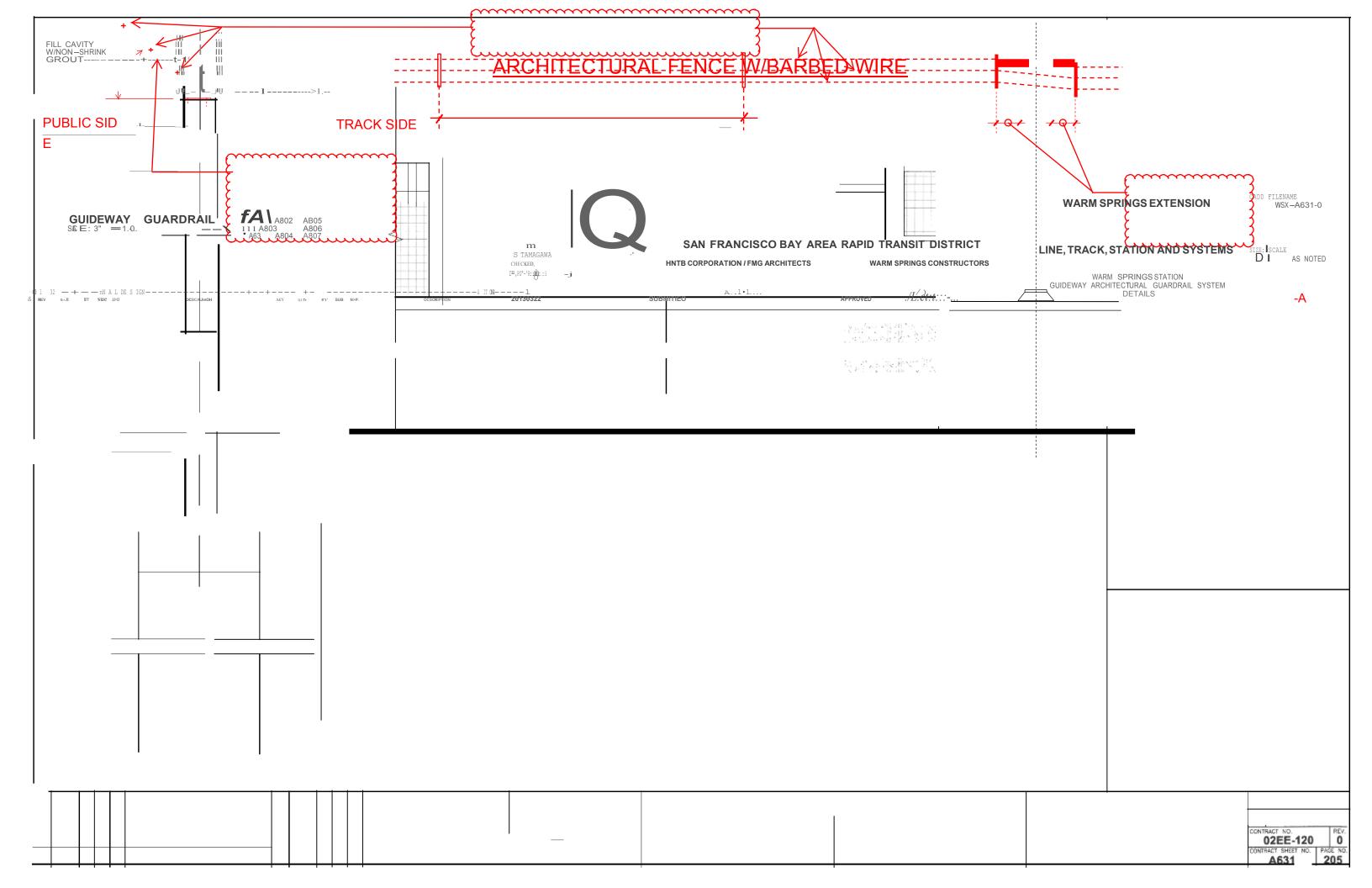
INSTALLATION OF FENCE POSTS ----t-

- ALTERNATE PANEL PATTERN AS SHOWN, SEE ELEVATIONS
- FOR STATION IDENTIFICATION SIGN LOCATION SEE A821-A824

POLE OCCURS, TYP

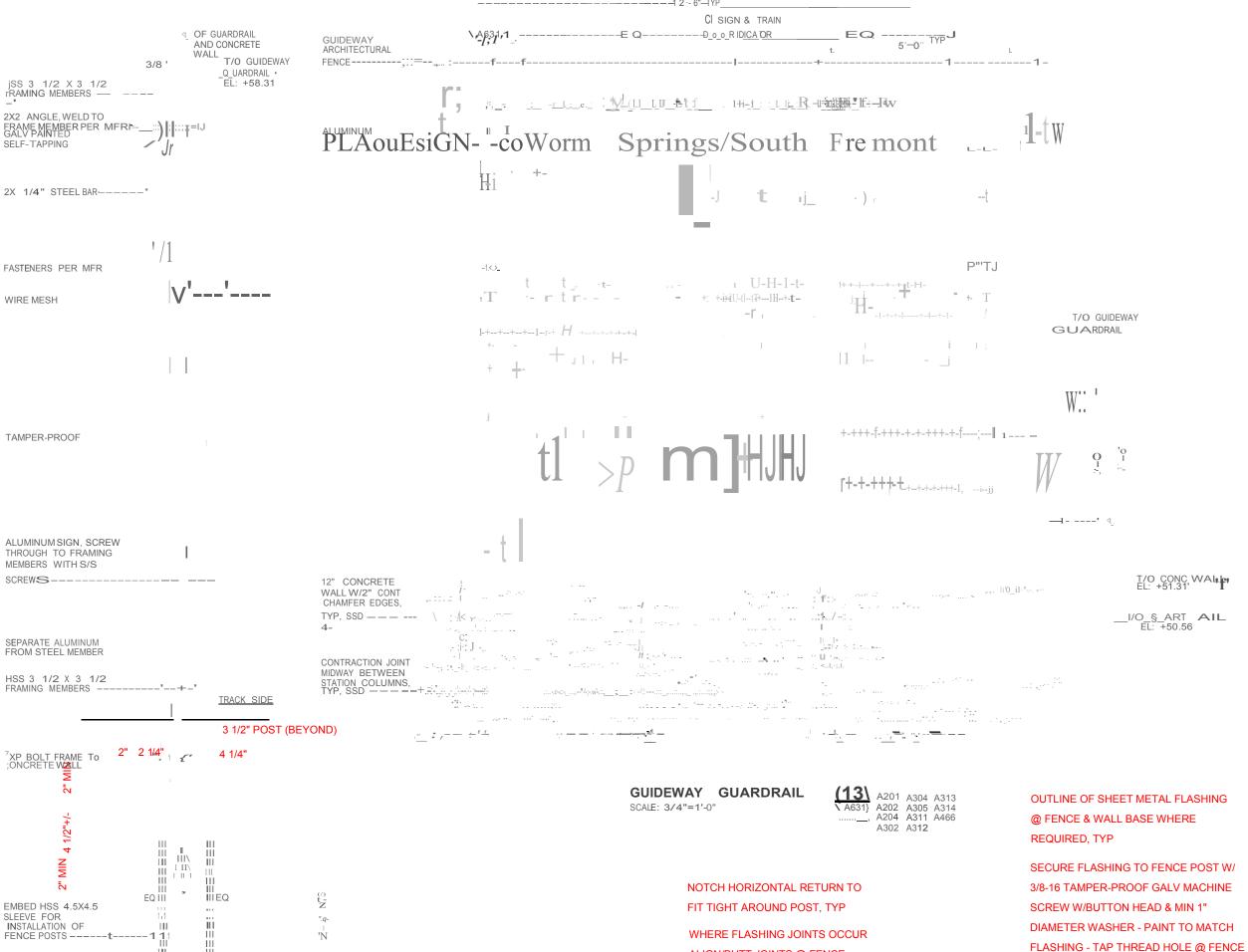
HOLD 1'-0" FROM FENCE

EDGE WHERE LIGHT



LIGHT POLE ©

POST ACCORDINGLY TO RECIEVE SCREW



ISOMETRIC VIEW

ALIGN/BUTT JOINTS @ FENCE

POST CENTERLINE / COVER JOINT WITH LAP FLASHING (MIN WIDTH

- 1. ALTERNATE PANEL PATTERN AS SHOWN, SEE ELEVATIONS
- FOR STATION IDENTIFICATION SIGN LOCATION SEE A821-A824

HALF SIZE

